

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/14403

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/705 G01N33/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, PAJ, WPI Data, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JAQUEMAR DANIEL ET AL: "An ankyrin-like protein with transmembrane domains is specifically lost after oncogenic transformation of human fibroblasts" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 274, no. 11, 12 March 1999 (1999-03-12), pages 7325-7333, XP002279015 ISSN: 0021-9258 page 7332, left-hand column, paragraph 2 -right-hand column, last paragraph; figures 1-3	1-23
X	WO 01/75067 A (HYSEQ INC ;LIU CHENGHUA (US); TANG Y TOM (US); DRMANAC RODOJE T (U) 11 October 2001 (2001-10-11) Sequence according to Seq. ID No. 47375. claims 1,10-12,17,28	1-23



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

5 May 2004

Date of mailing of the international search report

02/06/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/18020 A (UNIV CALIFORNIA) 15 March 2001 (2001-03-15) Sequence according to Seq. ID No. 4 claim 18 ---	11-14, 18-20
A	PEIER ANDREA M ET AL: "A TRP channel that senses cold stimuli and menthol" CELL, CELL PRESS, CAMBRIDGE, MA, US, vol. 108, no. 5, 8 March 2002 (2002-03-08), pages 705-715, XP002246274 ISSN: 0092-8674 cited in the application page 711, left-hand column, paragraph 2 -page 713, left-hand column, paragraph 1 ---	1-23
A	MONTELL CRAIG ET AL: "The TRP channels, a remarkably functional family" CELL, vol. 108, no. 5, 8 March 2002 (2002-03-08), pages 595-598, XP002279016 ISSN: 0092-8674 ---	
P,X	STORY GINA M ET AL: "ANKTM1, a TRP-like channel expressed in nociceptive neurons, is activated by cold temperatures." CELL. UNITED STATES 21 MAR 2003, vol. 112, no. 6, 21 March 2003 (2003-03-21), pages 819-829, XP002279017 ISSN: 0092-8674 abstract -----	1-23

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 5-20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 11-14, 17-20, and 22 (all claims partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 11-14,17-20, and 22 (all claims partially)

Present claims 11-14,17-20, and 22 relate to a compound defined by reference to a desirable characteristic or property, namely the ability to modulate the nociceptive response of the protein according to the present application. The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compound. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to antibodies (see claim 23).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0175067 A	11-10-2001	AU 3486501 A	14-08-2001
		AU 3995501 A	12-09-2001
		AU 4925101 A	15-10-2001
		AU 4972801 A	15-10-2001
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		AU 5521401 A	15-10-2001
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		EP 1268510 A2	02-01-2003
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		US 2003152991 A1	14-08-2003